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## RAW SEQUENCE LISTING

DATE: 01/08/2003

PATENT APPLICATION: US/09/884,319

TIME: 10:30:11

Input Set : N:\Crf3\RULE60\09884319.raw

Output Set: N:\CRF4\01082003\I884319.raw

## SEQUENCE LISTING

3 (1) GENERAL INFORMATION:  
5 (i) APPLICANT: Lin, Lih-Ling  
6 Graham, James  
8 (ii) TITLE OF INVENTION: NOVEL INTERLEUKIN-1 RECEPTOR  
9 INTRACELLULAR LIGAND PROTEINS AND INHIBITORS OF LIGAND  
10 BINDING  
12 (iii) NUMBER OF SEQUENCES: 7  
14 (iv) CORRESPONDENCE ADDRESS:  
15 (A) ADDRESSEE: LEGAL AFFAIRS, GENETICS INSTITUTE, INC.  
16 (B) STREET: 87 CambridgePark Drive  
17 (C) CITY: Cambridge  
18 (D) STATE: MA  
19 (E) COUNTRY: USA  
20 (F) ZIP: 02140  
22 (v) COMPUTER READABLE FORM:  
23 (A) MEDIUM TYPE: Floppy disk  
24 (B) COMPUTER: IBM PC compatible  
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25  
28 (vi) CURRENT APPLICATION DATA:  
C--> 29 (A) APPLICATION NUMBER: US/09/884,319  
C--> 30 (B) FILING DATE: 18-Jun-2001  
31 (C) CLASSIFICATION:  
33 (vii) PRIOR APPLICATION DATA:  
W--> 34 (A) APPLICATION NUMBER: US/09/083,516  
35 (B) FILING DATE:  
W--> 37 (A) APPLICATION NUMBER: 08/487,942  
38 (B) FILING DATE:  
40 (viii) ATTORNEY/AGENT INFORMATION:  
41 (A) NAME: Brown, Scott A.  
42 (B) REGISTRATION NUMBER: 32,724  
43 (C) REFERENCE/DOCKET NUMBER: GI5258  
45 (ix) TELECOMMUNICATION INFORMATION:  
46 (A) TELEPHONE: (617) 498-8224  
47 (B) TELEFAX: (617) 876-5851  
50 (2) INFORMATION FOR SEQ ID NO: 1:  
52 (i) SEQUENCE CHARACTERISTICS:  
53 (A) LENGTH: 1571 base pairs  
54 (B) TYPE: nucleic acid  
55 (C) STRANDEDNESS: double  
56 (D) TOPOLOGY: linear  
58 (ii) MOLECULE TYPE: cDNA

ENTERED

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60      (iii) HYPOTHETICAL: NO
63      (ix) FEATURE:
64          (A) NAME/KEY: CDS
65          (B) LOCATION: 2..529
68      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
70 G ATC CCC AGG GTG GAC CTC CGG GTG TGG CAG GAC TGC TGT GAA GAC      46
71   Ile Pro Arg Val Asp Leu Arg Val Trp Gln Asp Cys Cys Glu Asp
72     1           5           10          15
74 TGT AGG ACC AGG GGG CAG TTC AAT GCC TTT TCC TAT CAT TTC CGA GGC      94
75 Cys Arg Thr Arg Gly Gln Phe Asn Ala Phe Ser Tyr His Phe Arg Gly
76     20          25          30
78 AGA CGG TCT CTT GAG TTC AGC TAC CAG GAG GAC AAG CCG ACC AAG AAA      142
79 Arg Arg Ser Leu Glu Phe Ser Tyr Gln Glu Asp Lys Pro Thr Lys Lys
80     35          40          45
82 ACA AGA CCA CGG AAA ATA CCC AGT GTT GGG AGA CAG GGG GAA CAT CTC      190
83 Thr Arg Pro Arg Lys Ile Pro Ser Val Gly Arg Gln Gly Glu His Leu
84     50          55          60
86 AGC AAC AGC ACC TCA GCC TTC AGC ACA CGC TCA GAT GCA TCT GGG ACA      238
87 Ser Asn Ser Thr Ser Ala Phe Ser Thr Arg Ser Asp Ala Ser Gly Thr
88     65          70          75
90 AAT GAC TTC AGA GAG TTT GTT CTG GAA ATG CAG AAG ACC ATC ACA GAC      286
91 Asn Asp Phe Arg Glu Phe Val Leu Glu Met Gln Lys Thr Ile Thr Asp
92    80          85          90          95
94 CTC AGA ACA CAG ATA AAG AAA CTT GAA TCA CGG CTC AGT ACC ACA GAG      334
95 Leu Arg Thr Gln Ile Lys Lys Leu Glu Ser Arg Leu Ser Thr Thr Glu
96    100         105         110
98 TGC GTG GAT GCC GGG GGC GAA TCT CAC GCC AAC AAC ACC AAG TGG AAA      382
99 Cys Val Asp Ala Gly Gly Glu Ser His Ala Asn Asn Thr Lys Trp Lys
100   115         120         125
102 AAA GAT GCA TGC ACC ATT TGT GAA TGC AAA GAC GGG CAG GTC ACC TGC      430
103 Lys Asp Ala Cys Thr Ile Cys Glu Cys Lys Asp Gly Gln Val Thr Cys
104   130         135         140
106 TTC GTG GAA GCT TGC CCC CCT GCC ACC TGT GCT GTC CCC GTG AAC ATC      478
107 Phe Val Glu Ala Cys Pro Pro Ala Thr Cys Ala Val Pro Val Asn Ile
108   145         150         155
110 CCA GGG GCC TGC TGT CCA GTC TGC TTA CAG AAG AGG GCG GAG GAA AAG      526
111 Pro Gly Ala Cys Cys Pro Val Cys Leu Gln Lys Arg Ala Glu Glu Lys
112 160         165         170         175
114 CCC TAGGCTCCTG GGAGGCTCCT CAGAGTTTGT CTGCTGTGCC ATCGTGAGAT      579
115 Pro
118 CGGGTGGCCG ATGGCAGGGA GCTGCGGACT GCAGACCAGG AAACACCCAG AACTCGTGAC      639
120 ATTTTCATGAC AACGTCCAGC TGGTGCTGTT ACAGAAGGCA GTGCAGGAGG CTTCCAACCA      699
122 GAGCATCTGC GGAGAAGGAG GCACAGCAGG TGCCTGAAGG GAAGCAGGCA GGAGTCCTAG      759
124 CTTACAGTTA GACTTCTCAG GTTTTTATTT AATTCTTTTA AAATGAAAAA TTGGTGCTAC      819
126 TATTAAATTG CACAGTTGAA TCATTTAGGC GCCTAAATTG ATTTTGCCCTC CCAACACCAT      879
128 TTCTTTTAA ATAAAGCAGG ATACCTCTAT ATGTCAGCCT TGCCTTGTTT AGATGCCAGG      939
130 AGCCGGCAGA CCTGTCACCC GCAGGTGGGG TGAGTCTCGG AGCTGCCAGA GGGGCTCACC      999
132 GAAATCGGGG TTCCATCACA AGCTATGTTT AAAAAGAAAA TTGGTGTTTG CCAAACGGAA      1059
134 CAGAACCTTT GATGAGAGCG TTCACAGGGA CACTGTCTGG GGGTGCAGTG CAAGCCCCCG      1119

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136 GCCTCTTCCC TGGGAACCTC TGAACCTCCTC CTTCTCTGG GCTCTCTGTA ACATTTACACC 1179
138 ACACGTCAGC ATCTAATCCC AAGACAAACA TTCCCGCTGC TCGAAGCAGC TGTATAGCCT 1239
140 GTGACTCTCC GTGTGTCAGC TCCTTCCACA CCTGATTAGA ACATTCATAA GCCACATTTA 1299
142 GAAACAGGTT TGCTTTCAGC TGCTACTTGC ACACATACTG CCTAGTTGTG AACCAAATGT 1359
144 GAAAAAACCT CCTTCATCCC ATTGTGTATC TGATACCTGC CGAGGGCCAA GGGTGTGTGT 1419
146 TGACAACGCC GCTCCCAGCC GGCCCTGGTT GCGTCCACGT CCTGAACAAG AGCCGCTTCC 1479
148 GGATGGCTCT TCCCAAGGGA GGAGGAGCTC AAGTGTCGGG AACTGTCTAA CTTCAGGTTG 1539
150 TGTGAGTGCG TTAACAAAAA AAAAAA AA 1571

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153 (2) INFORMATION FOR SEQ ID NO: 2:

155 (i) SEQUENCE CHARACTERISTICS:

156 (A) LENGTH: 176 amino acids

157 (B) TYPE: amino acid

158 (D) TOPOLOGY: linear

160 (ii) MOLECULE TYPE: protein

162 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

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164 Ile Pro Arg Val Asp Leu Arg Val Trp Gln Asp Cys Cys Glu Asp Cys
165 1 5 10 15
167 Arg Thr Arg Gly Gln Phe Asn Ala Phe Ser Tyr His Phe Arg Gly Arg
168 20 25 30
170 Arg Ser Leu Glu Phe Ser Tyr Gln Glu Asp Lys Pro Thr Lys Lys Thr
171 35 40 45
173 Arg Pro Arg Lys Ile Pro Ser Val Gly Arg Gln Gly Glu His Leu Ser
174 50 55 60
176 Asn Ser Thr Ser Ala Phe Ser Thr Arg Ser Asp Ala Ser Gly Thr Asn
177 65 70 75 80
179 Asp Phe Arg Glu Phe Val Leu Glu Met Gln Lys Thr Ile Thr Asp Leu
180 85 90 95
182 Arg Thr Gln Ile Lys Lys Leu Glu Ser Arg Leu Ser Thr Thr Glu Cys
183 100 105 110
185 Val Asp Ala Gly Gly Glu Ser His Ala Asn Asn Thr Lys Trp Lys Lys
186 115 120 125
188 Asp Ala Cys Thr Ile Cys Glu Cys Lys Asp Gly Gln Val Thr Cys Phe
189 130 135 140
191 Val Glu Ala Cys Pro Pro Ala Thr Cys Ala Val Pro Val Asn Ile Pro
192 145 150 155 160
194 Gly Ala Cys Cys Pro Val Cys Leu Gln Lys Arg Ala Glu Glu Lys Pro
195 165 170 175

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198 (2) INFORMATION FOR SEQ ID NO: 3:

200 (i) SEQUENCE CHARACTERISTICS:

201 (A) LENGTH: 1088 base pairs

202 (B) TYPE: nucleic acid

203 (C) STRANDEDNESS: double

204 (D) TOPOLOGY: linear

206 (ii) MOLECULE TYPE: cDNA

208 (iii) HYPOTHETICAL: NO

211 (ix) FEATURE:

212 (A) NAME/KEY: CDS

213 (B) LOCATION: 2..961

216 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

## RAW SEQUENCE LISTING

DATE: 01/08/2003

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TIME: 10:30:11

Input Set : N:\Crf3\RULE60\09884319.raw

Output Set: N:\CRF4\01082003\I884319.raw

218	G AAA AAA GGA GGT AAA ACA GAA CAG GAT GGC TAT CAG AAA CCC ACC	46
219	Lys Lys Gly Gly Lys Thr Glu Gln Asp Gly Tyr Gln Lys Pro Thr	
220	1 5 10 15	
222	AAC AAA CAC TTC ACG CAG AGT CCC AAG AAG TCA GTG GCC GAC CTG CTG	94
223	Asn Lys His Phe Thr Gln Ser Pro Lys Lys Ser Val Ala Asp Leu Leu	
224	20 25 30	
226	GGG TCC TTT GAA GGC AAA CGA AGA CTC CTT CTG ATC ACT GCT CCC AAG	142
227	Gly Ser Phe Glu Gly Lys Arg Arg Leu Leu Leu Ile Thr Ala Pro Lys	
228	35 40 45	
230	GCT GAG AAC AAT ATG TAT GTG CAA CAA CGT GAT GAA TAT CTG GAA AGT	190
231	Ala Glu Asn Asn Met Tyr Val Gln Gln Arg Asp Glu Tyr Leu Glu Ser	
232	50 55 60	
234	TTC TGC AAG ATG GCT ACC AGG AAA ATC TCT GTG ATC ACC ATC TTC GGC	238
235	Phe Cys Lys Met Ala Thr Arg Lys Ile Ser Val Ile Thr Ile Phe Gly	
236	65 70 75	
238	CCT GTC AAC AAC AGC ACC ATG AAA ATC GAC CAC TTT CAG CTA GAT AAT	286
239	Pro Val Asn Asn Ser Thr Met Lys Ile Asp His Phe Gln Leu Asp Asn	
240	80 85 90 95	
242	GAG AAG CCC ATG CGA GTG GTG GAT GAT GAA GAC TTG GTA GAC CAG CGT	334
243	Glu Lys Pro Met Arg Val Val Asp Asp Glu Asp Leu Val Asp Gln Arg	
244	100 105 110	
246	CTC ATC AGC GAG CTG AGG AAA GAG TAC GGA ATG ACC TAC AAT GAC TTC	382
247	Leu Ile Ser Glu Leu Arg Lys Glu Tyr Gly Met Thr Tyr Asn Asp Phe	
248	115 120 125	
250	TTC ATG GTG CTA ACA GAT GTG GAT CTG AGA GTC AAG CAA TAC TAT GAG	430
251	Phe Met Val Leu Thr Asp Val Asp Leu Arg Val Lys Gln Tyr Tyr Glu	
252	130 135 140	
254	GTA CCA ATA ACA ATG AAG TCT GTG TTT GAT CTG ATC GAT ACT TTC CAG	478
255	Val Pro Ile Thr Met Lys Ser Val Phe Asp Leu Ile Asp Thr Phe Gln	
256	145 150 155	
258	TCC CGA ATC AAA GAT ATG GAG AAG CAG AAG AAG GAG GGC ATT GTT TGC	526
259	Ser Arg Ile Lys Asp Met Glu Lys Gln Lys Lys Glu Gly Ile Val Cys	
260	160 165 170 175	
262	AAA GAG GAA GTT GGG GGA GTG TTA GAA CTG TTC CCA ATT AAT GGG AGC	574
263	Lys Glu Glu Val Gly Gly Val Leu Glu Leu Phe Pro Ile Asn Gly Ser	
264	180 185 190	
266	TCT GTT GTT GAG CGA GAA GAC GTA CCA GCC CAT TTG GTG AAA GAC ATT	622
267	Ser Val Val Glu Arg Glu Asp Val Pro Ala His Leu Val Lys Asp Ile	
268	195 200 205	
270	CGT AAC TAT TTT CAA GTG AGC CCG GAG TAC TTC TCC ATG CTT CTA GTC	670
271	Arg Asn Tyr Phe Gln Val Ser Pro Glu Tyr Phe Ser Met Leu Leu Val	
272	210 215 220	
274	GGA AAA GAC GGA AAT GTC AAA TCC TGG TAT CCT TCC CCA ATG TGG TCC	718
275	Gly Lys Asp Gly Asn Val Lys Ser Trp Tyr Pro Ser Pro Met Trp Ser	
276	225 230 235	
278	ATG GTG ATT GTG TAC GAT TTA ATT GAT TCG ATG CAA CTT CGG AGA CAG	766
279	Met Val Ile Val Tyr Asp Leu Ile Asp Ser Met Gln Leu Arg Arg Gln	
280	240 245 250 255	
282	GAA ATG GCG ATT CAG CAG TCA CTG GGG ATG CGC TGC CAG AAG ATG AGT	814

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283 Glu Met Ala Ile Gln Gln Ser Leu Gly Met Arg Cys Gln Lys Met Ser
284                260                265                270
286 ATG CAG GCT ATG GTT ACC ATA GTT ACC ACC AAG GAT ACC AGG ATG GTT      862
287 Met Gln Ala Met Val Thr Ile Val Thr Thr Lys Asp Thr Arg Met Val
288                275                280                285
290 ACC AGG ATG ACT ACC GTC ATC ATG AGA GTT ATC ACC ATG GAT ACC CTT      910
291 Thr Arg Met Thr Thr Val Ile Met Arg Val Ile Thr Met Asp Thr Leu
292                290                295                300
294 ACT GAG CAG AAA TAT GTA ACC TTA GAC TCA GCC AGT TTC CTC TGC AGC      958
295 Thr Glu Gln Lys Tyr Val Thr Leu Asp Ser Ala Ser Phe Leu Cys Ser
296                305                310                315
298 TGC TAAAACTACA TGTGGCCAGC TCCATTCTTC CACACTGCGT ACTACATTTC      1011
299 Cys
300 320
302 CTGCCTTTTT CTTTCAGTGT TTTTCTAAGA CTAAATAAAT AGCAAAC TTT CACCTAAAAA      1071
304 AAAAAAAAAA AAAAAAA      1088
307 (2) INFORMATION FOR SEQ ID NO: 4:
309     (i) SEQUENCE CHARACTERISTICS:
310         (A) LENGTH: 320 amino acids
311         (B) TYPE: amino acid
312         (D) TOPOLOGY: linear
314     (ii) MOLECULE TYPE: protein
316     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
318 Lys Lys Gly Gly Lys Thr Glu Gln Asp Gly Tyr Gln Lys Pro Thr Asn
319   1      5      10      15
321 Lys His Phe Thr Gln Ser Pro Lys Lys Ser Val Ala Asp Leu Leu Gly
322      20      25      30
324 Ser Phe Glu Gly Lys Arg Arg Leu Leu Ile Thr Ala Pro Lys Ala
325      35      40      45
327 Glu Asn Asn Met Tyr Val Gln Gln Arg Asp Glu Tyr Leu Glu Ser Phe
328      50      55      60
330 Cys Lys Met Ala Thr Arg Lys Ile Ser Val Ile Thr Ile Phe Gly Pro
331      65      70      75      80
333 Val Asn Asn Ser Thr Met Lys Ile Asp His Phe Gln Leu Asp Asn Glu
334      85      90      95
336 Lys Pro Met Arg Val Val Asp Asp Glu Asp Leu Val Asp Gln Arg Leu
337      100     105     110
339 Ile Ser Glu Leu Arg Lys Glu Tyr Gly Met Thr Tyr Asn Asp Phe Phe
340      115     120     125
342 Met Val Leu Thr Asp Val Asp Leu Arg Val Lys Gln Tyr Tyr Glu Val
343      130     135     140
345 Pro Ile Thr Met Lys Ser Val Phe Asp Leu Ile Asp Thr Phe Gln Ser
346      145     150     155     160
348 Arg Ile Lys Asp Met Glu Lys Gln Lys Lys Glu Gly Ile Val Cys Lys
349      165     170     175
351 Glu Glu Val Gly Gly Val Leu Glu Leu Phe Pro Ile Asn Gly Ser Ser
352      180     185     190
354 Val Val Glu Arg Glu Asp Val Pro Ala His Leu Val Lys Asp Ile Arg
355      195     200     205

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/884,319

DATE: 01/08/2003

TIME: 10:30:12

Input Set : N:\Cr3\RULE60\09884319.raw

Output Set: N:\CRF4\01082003\I884319.raw

L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:37 M:238 W: Alpha Fields not Ordered, Reordered [(A) APPLICATION NUMBER:] of (1)(vii)